

*Examiner's Copy*

AN 1976-86590X [46] WPIDS

TI Die blank treatment - heating to a level between the transformation points improves surface finish.

DC M24

PA (ABPH-R) AS BELO PHYS TECH

CYC 1

PI SU 505719 A 19760427 (197646)\* <--

PRAI SU 1974-2075415 19741118

AB SU 505719 A UPAB: 19930901

The die blank is heated to a temp. between the critical points Ac1 and Ac3 to ensure formation of the low-alloyed and thermally unstable austenite. This is followed by h.f. surface heating close to the working zone of the die, the depth of heating amounting to 2-10 mm. The degree of penetration is a function of weight and geometry of the produced die shape. As a result, a highly alloyed austenite with a stability at 450-650 degrees C. is formed in the zone around the gravure after the rough stage of pressing.